# THE JERSEY CITY **MUNICIPAL UTILITIES AUTHORITY**

# **MEMORANDUM**

DATE:

March 30, 2016

TO:

Mayor Steven M. Fulop

FROM: Daniel F. Becht, Esq. Executive Director

SUBJECT:

Testing of Jersey City Water Supply

Per your request independent sampling and testing of the Jersey City water supply was conducted by Garden State Laboratories (GSL) for the Jersey City Municipal Utilities Authority (JCMUA) during the months of February and March of 2016. I have attached their opinion letter as well as the clinical results and my staff review memo. I am pleased to announce, as I thought we were, we are in full compliance with all USEPA and NJ DEP rules and regulations as it pertains to providing safe and clean water to the citizens of Jersey City.

Additionally, the JCMUA and Suez Water Jersey City will provide any technical guidance requested by the Board of Education regarding any concerns related to lead in their facilities.

I hope this information satisfies your initial inquiry.

# THE JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

# **MEMORANDUM**

DATE:

March 30, 2016

TO:

Daniel F. Becht, Esq. Executive Director

FROM: Rajiv Prakash, P.E. Water Engineer

SUBJECT:

Testing of Jersey City Water Supply

Independent sampling and testing of the Jersey City water supply was conducted by Garden State Laboratories (GSL) for the Jersey City Municipal Utilities Authority (JCMUA) during the months of February and March of 2016. The summary report prepared by GSL along with individual test results for all samples collected are attached. As part of the testing program, over 35 samples were collected and tested for over 200 parameters. The results indicate that the water supply meets all Federal and State Safe Drinking Water Standards.

The tested parameters included the following:

- Volatile Organic Compounds (VOCs)
- Inorganics (including lead and copper)
- Secondary Standards (including color, pH, odor and taste)
- Other contaminants (including disinfection byproducts, turbidity, coliform bacteria, and radiologicals)

In addition to the above testing, JCMUA and Suez Water Jersey City will provide any technical guidance requested by the Board of Education regarding any concerns related to lead in their facilities.

Please contact me if you have any questions.



Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

# Garden State Laboratories, Inc.

Bacteriological and Chemical Testing

410 Hillside Avenue Hillside, New Jersey 07205



Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

March 29, 2016

Rajiv Prakash, PE Jersey City Municipal Utilities Authority 555 Route 440 Jersey City, NJ 07304

r.prakash@jcmua.com

Summary of Drinking Water Analyses

As per your request I am providing you with a summary report for samples analyzed for a variety of regulated and unregulated compounds and bacteria.

The coliform analyses were all less than 1 coliform organism per 100 ml. This indicates the absence of coliform and E. coli bacteria. The free and total chlorine results were normal for municipal water systems and within the USEPA limit of 4.0 mg/l.

The trihalomethanes, haloacetic acids and volatile organic compounds were all within federal and state maximum contaminant levels (MCLs).

The secondary recommendations, except for corrosivity, were within the USEPA and NJDEP recommendations. The Langelier index is -1.49 which indicates a corrosive water environment. As informed by Suez Water Jersey City the compound orthophosphate is added to the water system. Ortho-phosphate is a corrosion inhibitor utilized to mitigate lead and copper corrosion.

Specific samples were analyzed for lead and copper. The USEPA Action Levels of 0.015 mg/l for lead and 1.3 mg/l for copper were not exceeded. Some samples did have lead and copper detected below the Action Levels.

The turbidity was low.

The primary inorganic compounds and radiological parameters were all below the federal and state MCLs.



Bacteriological and Chemical Testing

# 410 Hillside Avenue Hillside, New Jersey 07205

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

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The Third Unregulated Contaminant Monitoring Regulation Rule (UCMR-3) parameters analyzed for were not detected except for hexavalent chromium, chlorate and strontium.

The compounds in the UCMR-3 group do not have legal MCLs in the State of New Jersey. The detected compounds are less than the referenced items.

The State of California has a MCL for hexavalent chromium at 10 ug/l. The hexavalent chromium result of 0.07 ug/l is below the California MCL.

I have not located any MCL for chlorate. I am attaching an AWWA document, The Potential Regulatory Implications of Chlorate, March 2014. The chlorate health reference level (HRL) is 210 ug/l. The result of 75 ug/l is below this HRL.

I have not located any MCL for strontium. I am attaching an American Water Works Association (AWWA) document, The Potential Regulatory Implications of Strontium, March 2014. In this document the health reference level (HRL) is 4,200 ug/l. The result of 77 ug/l is below this HRL.

Based upon the analyses performed the water distributed by the JCMUA appears to meet State and Federal standards.

Respectfully submitted,

Harvey Klein, M.S. Laboratory Director

Garden State Laboratories, Inc.



410 Hillside Avenue

REPORT OF

**ANALYSIS** 

Bacteriological and Chemical Testing Hillside, New Jersey 07205



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225054.0

DATE SUBMITTED: 2/25/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: MEN'S RESTROOM SINK TO THE RIGHT - MUA BUILDING (JC37)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 09:33

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.77	mg/l	4.0	2/25/16-09:34
Total Chlorine Residual on site	0.99	mg/l	4.0	2/25/16-09:34
		A4-70		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225055.0

CLIENT # JER17 DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: MEN'S RESTROOM SINK - GREENVILLE PRECEINT (JC30)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 10:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.64	mg/l	4.0	2/25/16-10:01
Total Chlorine Residual on site	0.86	mg/l	4.0	2/25/16-10:01

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225056.0

CLIENT # JER17

DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: LUNCH ROOM SINK - JERSEY CITY PUBLIC LIBRARY (JC32)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 10:30

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZEI
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.71	mg/l	4.0	2/25/16-10:31
Total Chlorine Residual on site	0.94	mg/l	4.0	2/25/16-10:31
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< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225057.0

CLIENT # JER17
DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: LADIES' ROOM SINK - SPA & SALON IN MGT. OFFICE (JC39)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 10:59

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.65	mg/l	4.0	2/25/16-11:00
Total Chlorine Residual on site	0.83	mg/l	4.0	2/25/16-11:00

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email; info@gslabs.com

Internet: www.gslabs.com REPORT # 360225058.0

CLIENT # JER17 DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: LUNCH ROOM SINK - GREEN VILLE HOSPITAL (JC15)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 11:20

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.71	mg/l	4.0	2/25/16-11:21
Total Chlorine Residual on site	0.99	mg/l	4.0	2/25/16-11:21
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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225059.0

DATE SUBMITTED: 2/25/16

CLIENT # JER17

TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JANITOR SINK - POLICE DEPARTMENT WEST PRECEINT (JC26)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 11:45

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZEI
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.49	mg/l	4.0	2/25/18-11:46
Total Chlorine Residual on site	0.73	mg/l	4.0	2/25/16-11:46
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< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

**REPORT OF** 

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225060.0

CLIENT # JER17

DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: GARAGE SINK - FIRE DEPARTMENT ENGINE CO.9, 697 BERGEN

AVE (JC24)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:15

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.86	mg/l	4.0	2/25/16-12:16
Total Chlorine Residual on site	1.03	mg/l	4.0	2/25/16-12:16

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225061.0

CLIENT # JER17

DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: CAFETERIA HAND SINK - MEDICAL CENTER, 355 GRAND

STREET (JC23)

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:45

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	2/25/16-15:51
Free Chlorine Residual on site	0.64	mg/l	4.0	2/25/16-12:46
Total Chlorine Residual on site	0.94	mg/l	4.0	2/25/16-12:46

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

**REPORT OF** 

**ANALYSIS** 

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.1

CLIENT # JER17
DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
Volatile Organic Compounds				3/2/16
Method: 524,2; page 1 of 3				
Dichlorodifluoromethane	<0.5	ug/l		
Chloromethane	<0.5	ug/l		
Vinyl Chloride	<0.5	ug/l	2	
Bromomethane	<0.5	ug/l		
Chioroethane	<0.5	ug/l		
Trichlorofluoromethane	<0.5	ug/l		
1,1-Dichloroethylene	<0.5	ug/l	2	
Methylene Chloride	<0.5	ug/l	3	
Methyl tert-Butyl Ether	<0.5	ug/l	70	
t-1,2-Dichloroethylene	<0.5	ug/l	100	
Isopropyl Ether	<0.5	ug/l		
1,1-Dichloroethane	<0.5	ug/l	50	
2,2-Dichloropropane	<0.5	ug/l		
cis-1,2-Dichloroethylene	<0.5	ug/l	70	
Chloroform	2.3	ug/l		
Bromochloromethane	<0.5	ug/l		
1,1,1-Trichloroethane	<0.5	ug/l	30	_
1,1-Dichloropropylene	<0.5	ug/l		
Carbon Tetrachloride	<0.5	ug/l	2	
Benzene	<0.5	ug/l	1	
1,2-Dichloroethane	<0.5	ug/l	2	
Trichloroethylene	<0.5	ug/l	1	
1,2-Dichloropropane	<0.5	ug/l	5	
Bromodichloromethane	2.1	ug/l		

< = less than, not detected.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.1

CLIENT # JER17

DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Volatile Organic Compounds				3/2/16
Method; 524.2; page 2 of 3				
Dibromomethane	<0.5	ug/l		
Toluene	<0.5	ug/l	1000	
1,1,2-Trichloroethane	<0.5	υg/l	3	
Tetrachloroethylene	<0.5	ug/l	1	
1,3-Dichloropropane	<0.5	ug/l		
Dibromochloromethane	0.6	ug/l		
1,2-Dibromoethane	<0.5	ug/l	=	
Chlorobenzene	<0.5	ug/l	50	
Ethylbenzene	<0.5	ug/l	700	
1,1,1,2-Tetrachloroethane	<0.5	ug/l		
a-Xylene	<0.5	ug/l	1000	
m&p-Xylene	<0.5	ug/l	1000	
Xylenes, total	<0.5	ug/l	1000	
Styrene	<0.5	ug/l	100	
Isopropyl Benzene	<0.5	ug/l		
Bromoform	<0.5	ug/l		
1,1,2,2-Tetrachloroethane	<0.5	ug/l	1	
1,2,3-Trichloropropane	<0.5	ug/l		
n-Propyl Benzene	<0.5	ug/l		
Bromobenzene	<0.5	ug/l		
1,3,5-Trimethyl Benzene	<0.5	ug/l		
2-Chlorotoluene	<0.5	ug/l		
4-Chlorotoluene	<0.5	ug/l		
tert-Butylbenzene	<0.5	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.1

CLIENT # JER17 DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

**BOONTON, NJ** 

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Volatile Organic Compounds				3/2/16
Method: 524.2; page 3 of 3				
1,2,4-Trimethylbenzene	<0.5	ug/l		
sec-Butylbenzene	<0.5	ug/l		
p-isopropyltoluene	<0.5	ug/l		
1,3-Dichlorobenzene	<0.5	ug/l	600	
1,4-Dichlorobenzene	<0.5	ug/l	75	
n-Butylbenzene	<0.5	ug/l		
1,2-Dichlorobenzene	<0.5	ug/l	600	
1,2-Dibromo-3-chloropropane	<0.5	ug/l		
1,2,4-Trichlorobenzene	<0.5	ug/l	9	
Hexachlorobutadiene	<0.5	ug/l		
Naphthalene	<0.5	ug/l	300	
1,2,3-Trichlorobenzene	<0.5	ug/l		
cis-1,3-Dichloropropylene	<0.5	ug/l		
trans-1,3-Dichloropropylene	<0.5	ug/l		
tert-Butyl-Alcohol	<10.0	ug/l		
<del> </del>				

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.2

DATE SUBMITTED: 2/25/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Antimony, EPA 200.8	<0.0004	mg/l	0.006	2/26/10
Arsenic, EPA 200.8	<0.0005	mg/l	0.005	2/26/10
Barlum, EPA 200.8	0.018	mg/l	2.0	2/26/10
Beryllium, EPA 200.8	<0.0003	mg/l	0.004	2/26/10
Cadmium, EPA 200.8	<0.0005	mg/l	0.005	2/26/10
Chromium, EPA 200.8	<0.0005	mg/l	0.1	2/26/10
Cyanide, SM 4500 CN-E	<0.02	mg/l	0.2	3/8/16
Fluoride, SM 4500 F-C	0.15	mg/l	4.0	3/4/16
Mercury, EPA 200.8	<0.0002	mg/l	0.002	2/26/10
Nickel, EPA 200.8	<0.0005	mg/l	0.1	2/26/10
Selenium, EPA 200.8	<0.0025	mg/l	0.05	2/26/10
Sulfate, SM 4500 SO4-E	27.6	mg/l	250	3/1/16
Thallium, EPA 200.8	<0.0003	mg/l	0.002	2/26/10
Sodium, SM 3111B	46.7	mg/l	50 - Rec.	2/26/16
Cyanide Analyzed by QC				

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



# **Analytical Report**

Serialized: 03/09/2016 07:22pm QC21

MR. D. OMARE GARDEN STATE LABORATORIES, INC. 410 HILLSIDE AVENUE

HILLSIDE, NJ 07205

Regarding:

GARDEN STATE LABORATORIES, INC. 410 HILLSIDE AVENUE HILLSIDE, NJ 07205

**PROJECT ID:** 

W01955

LABORATORY REPORT NUMBER:

L6091221



Authorized by: Raphael C. Fratti, Laboratory Director

QCL Accreditations: Southempton Div: EPA ID PA00016; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 08005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

# Eurofins QC, Inc.

# Analytical Report Printed 03/09/16 19:22 QC21

GARDEN STATE LABORATORIES, INC. W01955

P.O. No: Inv. No: EOM-03/16 PI PWSID:

MR. D. OMARE GARDEN STATE LABORATORIES, INC. 410 HILLSIDE AVENUE HILLSIDE, NJ 07205 Regarding: MR. D. OMARE GARDEN STATE LABORATORIES, INC. 410 HILLSIDE AVENUE HILLSIDE, NJ 07205

# SAMPLE SUMMARY

Lab ID	Collected	Received	Matrix	Client iD
L6091221-1	02/25/16 12:25	02/26/16 20:05	WATER	360225078.2, ROMAINE METER HOUSE, GATE, BOONTON

PIN: 88451

Serial Number: 5368703

# Eurofins QC, Inc.

# Analytical Report Printed 03/09/16 19:22

Sample Description: Sample Number:

360225078.2, ROMAINE METER HOUSE, GATE, BOONTON L6091221-1

WATER

1.5 C

Samp. Date/Time/Temp: Sampled by: Iced (Y/N):

02/25/16 12:25pm NA C

Matrix: Received Temp:

Customer

# **GENERAL CHEMISTRY**

Analytical Method: Dilution:

SM 4500CN C,E

Run Date: 03/08/16 03:00PM Analyst: JG

Workgroup: File ID:

160308CN

Units:

mg/l

Instrument: Hach DR/2400

Basis:

MDL\*

**Parameter** Cyanide, total CAS 57-12-5 Result ND

0.00240

0.0200

\*=This limit was used in the evaluation of the final result.

PIN: 88451

Serial Number: 5368703

# **DEFINITIONS**

Eurofins OC, Inc. (EOC)	The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor (For Microbiology, DF = volume of sample tested)
POS	Positive / Present	QUAL	Qualifier (Q)
NEG	Negative / Absent	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit
DRY	The result was reported on a dry weight basis.	ND	Analyte concentration not detected greater than the RL / MDL
TIC	Tentatively Identified Compounds (Library S	Search Compo	ounds); concentrations are estimated values only.

ppm (mg/l) Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.

ppb (ug/L) Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous

Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.

Greater than: In conjunction with a numerical value, indicates a concentration greater than RL/MDL.

Data Qualifiers (EPA CLP Convention)

anatawa t	SPA CLP Convention)		
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry	В	Metals: Value is ≥ MDL and < RL
В	Analyte was detected in the method blank	Е	Metals: Estimated value due to presence of interference
E	Concentration exceeds calibration range	М	Metals: Duplicate precision for an element outside control limit
υ	Analyte not detected above MDL/RL	N	Metals: Spike recovery for an element outside control limits
N	Presumptive evidence of compound in library search	C	Result confirmed by reanalysis
P1 or	Column precision criteria not met, report lower value	Q	Defined in report or case narrative or data package
P2	Column precision criteria not met, report higher value	V	Analyte concentration >100% between columns; reporting limit elevated
T	Temperature receipt exceedance, refer to Sample Comments/ Results Qualifiers section.		

### Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the EQC Southampton facility (1205 Industrial Boulevard, Southampton, PA 18966). Pharmaceutical testing is performed the EQC facility in Horsham (702 Electronic Drive, Horsham, PA 19044).
- The test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. EQC's interact program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry), Amanda Berd (Pharmaceutical), Sue Abbott (EQC Delaware).

### EOC Accreditations

Southampton	EPA ID: NELAP IDs: State IDs: FDA Reg #:	PA00018 PA 09-00131; NJ PA166; NY 11223 CT PH-0768; DE PA-018; MD 206 2515238	Eurofins, Land		PA 36-00037 J: PA011 Y: 10670
Delaware Wind Gap East Rutherford	State IDs: State IDs: State ID:	DE 00011; MD 138 PA 48-01334; NJ PA001 NJ 02015	Reading Vineland	State ID: State ID:	PA 06-03543 NJ 06005

SALVE FILE (D. 19).

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SALVE FILE (D. 19). No. Type\* Size Pres. CONTAINER INFORMATION OC Laboratories X SUBCONTRACTED WORK Date/Time 201 100 Date/Time:2/ Date/Time: Z Date/Time SSL CLENT# METHOD OF SHIPNEY ۵, ☐ Amount Paid: \$ ☐ Amount Due: \$ 0100 \* Aborth Jersey Office: — (~O. 71 / A. 4-1)
225 Sparta Ave., Sparta, NJ 07871
Tel. 973-729-1827 / Fax. 973-729-2126
South Jersey Office: 973-729-2126
515 Route 9 South, Barnegat, NJ 08005
Tel. 609-698-0199/800-625-7200 / Fax. 609-698-0910 ANALYSIS REQUIRED (Print Legitsky) 66091221 West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel, 908-537-7414 / Fax, 908-537-7415 Notes M STER HUSS, GATE, 640 Green benje Rd. Boomton Signature Andrew Fart Januari 1982 West State Broth State I was then Date I he was if of the Mich. CYANID arrow Total Pages 908-688-8900 EXT. 21 Ocher Rush Fee: \$ DANVAS OMARE 908-889-806 And Pre | List attached "Container Type: P. Phaste. G. - Gzes. A. - Amber Gass. T. - Sterie Thio. V. - VOA Vial. Other/Specify: "Proservation Code: A. - Non Preservat. B. - Suffuse And. C. - Sodam Hydroxide. D. - Nimire, Acid. Propervation Code: A. - Non Preservation Code: A. -(If RUSH REQUESTED) Rush Due by: Date: Signature: Signature: Signature: kitemet: www.oslabs.com E-Mail: info@oslabs.com Contact/Authorized by: SAMPLE COLLECTION Check # Time Phone: 986 10:25 Other/Specify. Garden State Laboratories, Inc. Composite Fee: \$ WILLIAM Date 00 PWS ID# CHAIN OF CUSTODY RECORD PRESS HAND AND PRINT CLEARLY - (SSE BALL FORT PUR) Payment Received by: Standard Hosh Standard Report + State Forms Credit Card Type: 410 HILLSIDE AVENUE GARDEN STATE LABS Tel. 908-688-8900/800-273-8901 / Fax 908-688-3966 HILL SIDE, NJ 07205 410 Hillside Ave., Hillside, NJ 07205 SAMPLE ID ROMAINE 25078 DRINKING WATER X Standard Report Client/C ent's Representative (PRINT): Sampling/Pick-up Fee: \$ 2. Received/Relinquished by (PRINT) Received/Refinguished by (PRINT) Bacteriological and Chemical Testing TURNAROUND TIME (T/A/T): 3603 SAMPLE LOCATION: Payment Method: Maifing Address: REPORT FORMAT: Sampled by (PRINT): City/State/Zip: SAMPLE TYPE: O O Note: Grab 791

# Eurofins QC, Inc. EAST RUTHERFORD-SOUTHAMPTON



# Inter-Laboratory | ransport Form: ES022616

# Coolers for Transport

COCIETS TOT TRAINSPORT	III Sport	The second second second							
To be complet	To be completed by person sealing coolers	ling coolers			Complete Section Upon Deli ery	Section Ivery			
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1562	10		1831	BRG	1.5		Once a cooler is sealed, custody seals may not be broken until samples are	eals may not be broken u	intii samples are
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	· ·					10	List ID of any seal found broken upon red	receipt below.	
4		-							
A full legal signature is required. Record all times in military time (24-HR Clock: 4:00 PM=1600)	dre is required. R	ecord all time	s in military	time (24-HF	Clock, 4:	00 PM=16	(00		
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					Page 6 of 6	9.10		Page 1 of 1	



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.3

CLIENT # JER17

DATE SUBMITTED: 2/25/16

REPORT OF **ANALYSIS** 

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
MBAS, SM 5540 C	<0.1	mg/l, MBAS	0.5	2/26/16-16:52
Total Alkalinity, SM 2320 B	34*	mg/l as CaCO3		3/16/16
Aluminum, EPA 200.7	<0.150	mg/l	0.2	3/2/16
Chloride, SM 4500 CL-B	96	mg/l	250	3/3/16
Color, SM 2120 B	<5	Color Units	10	2/25/16-21:33
Copper, SM 3111B	<0.010	mg/l	1.3	3/2/16
Corrosivity	- 1.49	Langelier Index	+/- 1.0	3/16/16
Fluoride, SM 4500 F-C	0.15	mg/l	4.0	3/4/16
Total Hardness, EPA 200.7	74.2	mg/l as CaCO3	250	3/2/16
iron, Total, EPA 200.7	<0.050	mg/l	0.3	3/2/16
Manganese, Total, EPA 200.7	0.024	mg/l	0.05	3/2/16
Odor, SM 2150 B	<1	Threshold number	3 TON	2/25/16-21:14
pH on site, 20 EdSM 4500 H+B	7.55	Standard Units	6.5-8.5	2/25/16-12:28
Silver, EPA 200.8	<0.0005	mg/l	0.1	2/26/16
Sulfate, SM 4500 SO4-E	27.6	mg/l	250	3/1/16
Temperature on site, SM 2550 B	9.16	°C		2/25/16-12:26
T. Dissolved Solids, SM 2540C	255	mg/l	500	3/2/16
Zinc, EPA 200.7	<0.030	mg/l	5.0	3/2/16
Calcium Hardness, EPA 200.7	46.4	mg/l as CaCO3		3/2/16

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

\*Analyzed past holding time.

293822



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

**REPORT OF** 

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

REPORT # 360225078.4

CLIENT # JER17 DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
GROSS ALPHA, Immediate	0.3	picoCuries/l		2/27/16-8:00
Radium 228	0.0	picoCuries/I		3/3/16-9:20
ANALYZED BY:				
KNL Environmental				
	+			

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



# DOH Certification #E84025 ADEM Lab Certification #40580

Report Date: March 9, 2016

Garden State Laboratories, Inc.

410 Hillside Ave. Hillside, NJ 07205

Attn: Danvas Omare

Field Custody:

Client/Field ID: Sample Collection:

Client

360225078-4 2-25-16/1225

Lab ID No:

16.1851

Lab Custody Date:

2-26-16/1015

Sample description: Water

# CERTIFICATE OF ANALYSIS

Parameter	Units	Re	esul	ts	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.3	±	0.7	2-27-16/0800	ECLS-R-GA R8	1.6
Radium-228	pCi/l	0.0	±	0.4	3-3-16/0920	EPA Ra-05	0.7

Alpha Standard: Th-230 Beta Standard: Cs-137

> James W. Hayes Laboratory Manager

James W. Hages

(16.185)

2. Received/Refinquished by (PRINT):  THE TLABUTY OF GARDEN STATE LABORATORES, RAC, FOR SERVICES REVERSED SHALL IN NO PUBLIC PAGE AND NOT OF THE		Cipromition Profession Committee Com	LISA WILLAMIN	Sampled by (PRINT): Signature:	REPUBLICAN CONTRACTOR OF THE PROPERTY OF THE P	FOR RADIUM 226 -If Gross Alpha is greater than 3, RUN RADIUM 226 ANY QU	Note: FOR URANIUM -If Gross Alpha is greater than or equal to 15, RUN URANIUM	Payment Method:	Sampling/Pick-up Fee: \$   Composite Fee: 5   Rush Fee: 3	Standard Report + State Forms	REPORT FORMAT: X Standard Report Other/Specify:	TURNAROUND TIME (T/A/T): Y Standard Rush (MRUSH REQUESTED) Rush Due by:	Container Type: P = Plastic G = blass A = Arriver blass I = Scene from Very Book II - Code	The state of the s	Uranium - Hold for future	Radium 226 - Hold for fut	Radium 228	x 360285078. 4 2:2516 18:31 NJ Rapid Gross Alpha	Date Time Au Pu List attached Total Pages	SAMPLE COLLECTION ANALYSIS REQUIRED	SSAMPLE LOCATION: HOMPINE METER HOUSE	SAMPLE TYPE: DRINKING WATER	Hillside, NJ 07205	Mailing Address: 410 Hillside Avenue Phone: 908-688-8900	Name: GARDEN STATE LABORATORIES, INC. Contact/Authorized by: DANVAS OMARE	(PRESS HARD AND PRINT CLEARLY - USE BALL POINT PEN)  Tel. 800-625-7200/609-698-0199  Tel. 908-537-7414	CHAIN OF CUSTODY RECORD 515 Route 9, Barnetgat, NJ 08005 2050 Rt. 31 N, Glen Gardner, NJ 08826	Internet: www.gslabs.com E-mail: info@gslabs.com South Jersey West Jersey	and Chemic	Garden State Laboratories, Inc. 410 Hillside Ave., Hillside, NJ 07205
Mare/ime: 33/6-1/0	Date (Time) Of the No.	Oste/Time:	Date/Time: 2/25 ///6	Date/Time:	1. EB-95.11 1811 1. 1. 3E-B3.11	DUESTION - CALL THE LAB		Other: See Quote					X SHIP OF THE WORK		e analysis (see note)	Hold for future analysis (see note)		3 02 6 5	ges No. Type* Size Pres.*	ED (Print Legibly) CONTAINER INFORMATION					2 (7) 20 31	GSL CLENT #	NJ 08826 F#3P		DATE TIME TRAP RECOLATION	SOM SAUPE CONTROL OF C

THE LIABILITY OF CURDEN STATE LABORATORES, ALL, FOR SERVICES REDEDED SHALL IN NO EVENT EXCEED THE ANOUNT OF THE INVOICE.

CONTINUE BY U.S. PURIC HEARTH SERVICE, N.J. DOOL OF HEARTH, N.Y. STATE DOOL OF HEARTH-LEAS #11550 and N.J.D.E.P. - Lab & 20044



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.5

CLIENT # JER17

DATE SUBMITTED: 2/25/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > **Jersey City**

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Turbidity, SM 2130 B	0.10	NTU's	5.0	2/25/16-21:54

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360225078.6

DATE SUBMITTED: 2/25/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ROMAINE METER HOUSE, GATE, 640 GREENBANK RD.

BOONTON, NJ

DATE SAMPLED: 2/25/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
1,4-Dioxane USEPA Method 522	See Attached			
Prefluorinated Compounds usepa Method	for all			
Prefluorinated Compounds usepa Chlorate USEPA 300.1	results.			
Hexavalent Chromium USEPA 218.7				
Hormones USEPA 539				
Hormones USEPA 539 FTB				
Metals USEPA 200.8				
Metals USEPA 200.8 FTB				
Volatiles USEPA 524.3				
Volatiles USEPA 524.3 LRB				
	****			

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



# LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at  $(800)\ 332-4345$  or  $(574)\ 233-4777$ .

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# **STATE CERTIFICATION LIST**

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN00035
Arkansas	IN00035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	4074-001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA160002	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

<sup>\*</sup>NELAP/TNI Recognized Accreditation Bodies



# LABORATORY CASE NARRATIVE

Clien:t Garden State Laboratore s

Re pat #: 358415CN

Allme thodQC w as within acceptance limit.

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fin Wour	- Asm	03/15/2016
Authorize dS ignature	Title	Date
•		Page 1df1

Client Name:

**Garden State Laboratories** 

Report #: 358415

Sampling Point:

360225078.6RomaineMeterHouse

PWS ID: Not Supplied

			Gene	ral Chemi	stry				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
18540-29-9	Chromium, Hexavalent	218.7	-	0.02	0.07	ug/L		03/01/16 17:30	3406979
14866-68-3	Chlorate	300.1	_	20	75	ug/L	***	03/02/16 08:12	3406978

				Meta	ls				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
7440-47-3	Chromium	200.8	100 °	0.9	< 0.9	ug/L	03/02/16 10:30	03/03/16 18:55	3407449
7440-48-4	Cobalt	200.8	-	2.0	< 2.0	ug/L	03/02/16 10:30	03/03/16 18:55	3407449
7439-98-7	Molybdenum	200,8	-	2.0	< 2.0	ug/L	03/02/16 10:30	03/03/18 18:55	3407449
7440-24-6	Strontium	200.8	_	2.0	77	ug/L	03/02/16 10:30	03/03/16 18:55	3407448
7440-62-2	Vanadium	200.8		2.0	< 2.0	ug/L	03/02/16 10:30	03/03/16 18:55	3407449

		Volatii	e Organic	Chemical	8				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
123-91-1	1,4-Dioxane	522	040	0.07	< 0.07	ug/L	03/01/16 07:32	03/03/16 21:10	3406975
74-97-5	Bromochloromethane	524.3		0.06	< 0.06	ug/L	-	03/02/16 11:47	3406984
74-83-9	Bromomethane	524.3	_	0.2	< 0.2	ug/L	-	03/02/16 11:47	3406984
106-99-0	1,3-Butadlene	524.3		0.1	< 0.1	ug/L	•••	03/02/16 11:47	3406984
75-45-6	Chlorodifluoromethane	524.3		0.08	< 0.08	ug/L		03/02/16 11:47	3406984
74-87-3	Chloromethane	524.3		0.2	< 0.2	ug/L		03/02/16 11:47	3406984
75-34-3	1,1-Dichloroethane	524.3		0,03	< 0.03	ug/L	_	03/02/16 11:47	3406984
96-18-4	1,2,3-Trichloropropene	524.3	_	0.03	< 0.03	ug/L	_	03/02/16 11:47	3406984

			<b>EEA Met</b>	hods					
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537		90	< 90	ng/L	03/08/16 06:29	03/09/16 06:04	3406976
375-85-9	Perfluorohaptanolc scid (PFHpA)	537		10	< 10	ng/L	03/08/16 06:29	03/09/18 06:04	3406976
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	-	30	< 30	ng/L	03/08/16 06:29	03/09/16 08:04	3406976
375-95-1	Perfluorononanoic scid (PFNA)	537	-	20	< 20	ng/L	03/08/16 06:29	03/09/16 06:04	3406976
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	-	40	< 40	ng/L	03/08/16 06:29	03/09/16 06:04	3406976
335-67-1	Perfluorooctanoic acid (PFOA)	537	-	20	< 20	ng/L	03/08/16 06:29	03/09/16 06:04	3406976
63-05-8	4-Androstene-3,17-dione	539	•	0.3	< 0.3	ng/L	03/07/16 07:37	03/11/16 06:10	3408980
474-86-2	Equilin	539		4	< 4	ng/L	03/07/16 07:37	03/11/16 06:10	3406980
50-28-2	17beta-Estradiol	539		0.4	< 0.4	ng/L	03/07/16 07:37	03/11/16 06:10	3406980
50-27-1	Esthol	639	-	0.8	< 0.8	ng/L	03/07/16 07:37	03/11/16 06:10	3406980
53-16-7	Estrone	539	_	2	< 2	ng/L	03/07/16 07:37	03/11/16 06:10	3408980
57-63-6	17alpha-Ethynyl estradiol	539		0.9	< 0.9	ng/L	03/07/16 07:37	03/11/16 06:10	3408980
58-22-0	Testosterone	539		0.1	< 0.1	ng/L	03/07/16 07:37	03/11/16 06:10	3406980

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:		^	1

Client Name:

Report #: 358415

# **Lab Definitions**

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample albiquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bies to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

# Laboratory Report

Client:

Garden State Laboratories

Report:

358415

Attn:

Harvey Klein

Priority: Status:

Standard Written Final

410 Hillside Avenue

Hillside, NJ 07205

PWS ID:

Not Supplied

Method	Collected	Collected	Received
	Date / Time	By:	Date / Time
200.8	02/25/16 12:25	Client	02/29/16 08:40
	200.8 Report Summary	200.8 02/25/16 12:25	200.8 02/25/16 12:25 Client

Note: The sample bottle was empty upon receipt.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jim Vernon at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jon lateran	p300.	03/15/2016
Authorized Signature	Title	Date

eurofins 💸

Eaten Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

order # 2 92/6/ Batch # 358415

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Page ğ

STATE (sample origin) PROJECT NAME

CHAIN OF CUSTODY RECORD

PWS ID #

SAMPLER (Signature)

Harvey Klein, Borden State Lubs 410 Hillside Ave, Hillside, NT UTZOS BILL TO.

Same as Above

Shaded area for EEA use only

www.cotorprelytical.com

REPORT TO

Ş

Yes

COMPLIANCE

CHLORINATED YES NO SAMPLE REMARKS Ork ナ SOURCE WATER RX TEST NAME MOFAIS POPULATION SERVED 8/18

> Metro House SAMPLING SITE

> > AKOMEINE

DATE | TIME | AM | PM

COLLECTION

LAB Number

36025078.6238.667.81.60

**EMIT GNUORANRUT** 

# OF CONTAINERS

**BUOD XIRTAM** 

LAB COMMENTS FOR GLUSTIONS Set Jim KUNST. TIME TIME DATE DATE TIME RECEIVED BY (Signature) RECEIVED BY:(Signature) 17:00 TIME 3/4/6 DATE DATE LISA WILLIAMS RECKNOUISHED BY (Signature)

CONDITIONS UPON REGERT (check one): N° = Immediate Verbis (3 vorting days) IW\* = Immediate Witten; (3 vorting days) TIME TIME SP\* . Westend, Holiday DATE 3-116 TIME RECEIVED FOR LABORATORY BY

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES.

DATE

RELINQUISHED BY:(Signature)

RVF = Standard Whiten: (15 working days) 0% EW RVF = Rush Verter (5 working days) 50% RW . Rush Whiten (5 working darys)

Š

DW-DRIWKING WATER THEACENT WATER GW-CROUND WATER EXPOSURE WATER PW-POOL WATER WASTE WATER

כאוד 100% 125% STAT" - Less than 48 hours

Samples received unamounced with less than 48 hours helding lene remaining may be subject to additional charges.

ž

\*C Upon Receipt

3.4

Ambient \_\_\_\_

06-LO-F0435 Issue 4 0 Effective Date 2014-05-01

WASTE VATER

| Please call, expedited Service not available for all testing

| Calculation of the standard EAMster Service should be provided according to the standard EEAMster Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA

| Calculation of the standard according to the standard EEAMster Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA

| Calculation of the provided according to the standard EEAMster Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA

| Calculation of the provided according to the standard EEAMster Services Terms.

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Lacting of the participant of th	חאוב וואב		ACCEIVED BT.(Signame)	2	DATE	LABREST	LAS RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	I UNUSED PORTIONS OF	F NON-ADUEDUS SAMPLE	ES TO CLIENT	_
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( Muchans		AM   PM.			AM Pu	ii ii	148201	218.7	Buffer		
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						Prep Lot	SR5:5B	Prep Lot	SR5:5C		
						-	3100/016	Exp.	3/13/2016		
		AM PM			AM PW	dxo	3,12,2010	ACCOUNT OF THE PARTY OF T			
REUNQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE		CONDITIONS UPON	IME CONDITIONS UPON RECEIPT:	Y beefwhite	2	C. Bern Residen	
				5	829		980	5			
		AM PM	いくべく	かんか	AM PM	samples received	AM   Pt. Isamples received past 48 hours of collection mast be received at a temperature of 5.10.	action must be re	ceived at a tempor	rature of 5 6°C.	
KEY	nc	MR3 ac	UCMR3 acceptarice oriteria) for Receiving Checks:	g Chec	ks:	FTBs/LRBs	FTBs/LRBs upon lab receipt:	ot:			
A See Metal Samples Preservation	200.8 pH < 2	1<2	)			537 & 539 FTB	537 & 539 FTBs must be received in the corresponding blue labelled container	d in the correst	conding blue lab	relied container.	
Log	218.7 pH > 8	4 > 8				- (- 	MIT OLLAND TO BE A COUNTY OF THE	A bear	10110	1 0 411	
*P = Present	522 pH < 4	4				15111141	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				_
*A = Absent	Where a	pplicable	Where applicable All samples must be absent of residual chlorine.	ual chlor	ine.	ケイング	o rillus o	2-2	4	100	
						522 %	inde rain	CHOSE	James of	522 sinde rait at 80 m summer through a single	100

💸 eurofins		ics Analytical			110 South T: 1.86	110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207	7 Order# 2	8	218	80
and and the state of the state	njuo e	UCMR 3 CI	3 CHAIN OF C	USTODY R	CUSTODY RECORD (DSMRT)	SMRT)		Page	9	,
REPORT TO:	A COLOR	SAMPLER (Signature)		PWS tD #	STATE (sample origin)	origin)	Source Water Type	1	POS	-
Garden State Labs	Squ	Sample Point Type	Type		Sempling Event	Verit				St
		Distribution Maximum Residence Time (DSMRT)	idence Time	(DSMRT)	Sempling Event	1		Receiving Checks	g Checks	NTAINE
LAB Number	COLLECTION	SAMPLING SITE		Facility ID	Test Name UCMR3-		SAMPLE REMARKS	Ħ	Presidual Chlorine (PIA*1	# OE CO
					200 8 (Metals)			<	M	-
,		CLUSTATINGR Closes no			200.8 FTB (Metals)				NA	-
			(particular)		300 1 (Chlorate)			MA		-
4		Many to Sumple	-		218 7 (Hexavelent Chromism)	Chromism)	The second secon			-
U) I		LICAMP FOY DISTABLE	Control							-
2 1-			-							
80		(Chamb)	Johnstelle	261.						-
01										
RELIN: 7,800 BY (Signalure)	DATE TIME	RECEIVED BY (Signature)	DATE TIME	LABRESE	WES THE MIGHT TO RETUR	W UNUSED POATTOMS	LAB RESERVES THE MOHT TO RETURN UNUSED PORTITING OF WON-ADUEOUS SAMPLES TO CLIENT	F TO CLIENT		
RETINOUISHED BY (Signature)	DATE TIME	RECEIVED BY (Signature)	DATE TIME	EDA Fisher Lot	148201	218.7	Buffer			
			AM PM	Prep Lot	SR5:5B	Prep Lot Exp:	SR5:5C 3/13/2016			
RELINGUISHED BY (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY		CONDITIONS UPON RECEIPT. Semples received within 45 samples received past 48 f	Athin 48 hours of columns of colu	load: WavBlus flection must be nechion	8 5	*C Upon Receipt flure of S 10°C, rre of S 6°C,	Reariel C,	
KEY ACte Motel Complete Disconnection		UCMR3 acceptance criteria for Receiving Checks.								
Log 'P = Present 'A = Absent	218.7 pH > 8 300.1 and 218	218.7 must be absent of residual chlorine.	vine.							
Sample analysis will be provided according for	to the standard EEA/Wat	US-CONTROL STANDARD SENTED STANDARD SENTED SENTED WHICH are available upon request. Any other terms proposed by Customer are deemed meternal asterations and are rejected unless enpressly agree to in writing by	it. Any other terms p	roposed by Customer	are deemed material i	eferations and are	ere rejected unless expressly agree to in wrking (	Ly agree to in	witing by	7
-EA										

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808885830373

Ship date

Thu 2/25/2016 HILLSIDE, NJ US

Delivered

Actual delivery

SOUTH BEND, IN US

Sign-I for hy 5 SPERGENN

Travel History

▲ Date/Time Activity

= 2/29/2016 - Monday

8:35 am

7:54 am At local FedEx facility 7:00 am

- 2/27/2016 - Saturday

At destination son fairlity 7.16 am 4:11 am Departed FedEx location

Arrived at FadEx location 3:51 pm 7:57 am Departed FedEx location Arrived at FedEx loc ation 1:24 am

- 2/25/2010 - Thursday

10 12 pm Departed FedEx location Arrived at FedEx location 9:50 pm Left FedEx origin facility 9:30 pm

6.59 pm Picked up

Mon 2/29/2016 8:35 am

Dolivered

On FedEx vehicle for delivery

= 2/26/2016 - Friday

Location

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AND DESIGNATION SPRITH FERD EX

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Shipment Facts

Tracking number

805885830373

Weight 40 lbg 1 18, 14 kgs Delivered To thing of Roseway

Total shipment

weight

Packaging

40 tho 118,14 kgs. Your Darkinging

Service

FedEx Priority Overnight 24x14x14 m

Dimensions Total pieces

Shipper Terms

Special handling section

Deliver Weekday, Additional Handling

Surcharge

Customer Focus New Customer Contor Snull Business Center SHIVIOR GUIDE **Customer Support** 

Company Information Alvad FedEx Carous Invustor Resiliens

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Other Resources FodE & Compatible Developer Resource Conter FeitEx Ship Manager Software FodEx Mobile

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W United States - English



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304024.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

ANALYSIS

TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: GARAGE HAND SINK - FIRE DEPARTMENT (JC 22)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 09:45

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZEI
otal Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.71	mg/l	4.0	3/4/16-09:46
Total Chlorine Residual on site	0.78	mg/l	4.0	3/4/16-09:46
	*		44//	
	1			

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

tamer Dein



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

neac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304025.0

CLIENT# JER17

DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: RESTROOM SINK - POLICE HEADQUARTER (JC 19)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 10:10

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Collform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.71	mg/l	4.0	3/4/16-10:11
Total Chlorine Residual on site	1.01	mg/l	4.0	3/4/16-10:11

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304026.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

REPORT # 360

Mathew Klein, M.S., Founder (1916-1996)
Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: RESTROOM SINK - FIRE HEADQUARTER (JC 18), 356 NEWARK

AVE

DATE SAMPLED: 3/4/16

TIME SAMPLED: 10:45

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Collform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.60	mg/l	4.0	3/4/16-10:46
Total Chlorine Residual on site	0.86	mg/l	4.0	3/4/16-10:46

<= less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

tamer Dain



Bacteriological and Chemical Testing 410 Hillside Avenue

Hillside, New Jersey 07205

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

REPORT OF **ANALYSIS** 

TO: Jersey City Municipal Utilites Authority 555 Route 440

**Jersey City** 

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: RESTROOM SINK - CITY HALL (JC 20)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 11:30

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.61	mg/l	4.0	3/4/16-11:31
Total Chlorine Residual on site	0.69	mg/l	4.0	3/4/16-11:31

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966

email: info@gslabs.com

Internet: www.gslabs.com

REPORT # 360304027.0

CLIENT # JER17

DATE SUBMITTED: 3/4/16



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304028.0

CLIENT # JER17

DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: EXAM ROOM SINK - CHRIST HOSPITAL (JC 14)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 12:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.98	mg/l	4.0	3/4/16-12:01
Total Chlorine Residual on site	1.12	mg/l	4.0	3/4/16-12:01
			·	

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

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**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304029.0

CLIENT # JER17

DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

**Jersey City** 

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: HAND SINK NEAR GYM - POLICE DEPARTMENT NORTH

PRECEINT (JC 8)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 12:30

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.91	mg/l	4.0	3/4/16-12:31
Total Chlorine Residual on site	1.12	mg/l	4.0	3/4/16-12:31
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			<del></del>	

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

inc.

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304030.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: HAND SINK - TROY STREET (JC 11)

DATE SAMPLED: 3/4/16

TIME SAMPLED: 13:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Total Coliform, Col.18, SM9223B	<1	organisms/100ml	<1	3/4/16-15:49
Free Chlorine Residual on site	0.89	mg/l	4.0	3/4/16-13:01
Total Chlorine Residual on site	1.15	mg/l	4.0	3/4/16-13:01
	-			

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Have Dein



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304056.0

DATE SUBMITTED: 3/4/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: BRIAN C. MALEJKO, 28 TROY ST., JERSEY CITY, NJ 07305

DATE SAMPLED: 3/3/16

TIME SAMPLED: 09;55

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	0.002	mg/l	0.015	3/8/16
Copper, SM 31118	0.215	mg/l	1.3	3/8/16

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304057.0

DATE SUBMITTED: 3/4/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: PERFECTO JAYQUEZ, 115 AUDUBON AVE., JERSEY CITY, NJ

DATE SAMPLED: 3/3/16

TIME SAMPLED: 08:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	<0.001	mg/l	0.015	3/8/16
Copper, SM 3111B	<0.050	mg/l	1.3	3/8/16
			-	
		The both and the state of the s		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

REPORT # 360304058.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: MICHAEL EMENONYE, 41 BROADMAN PARKWAY, JERSEY CITY,

NJ 07305

DATE SAMPLED: 3/4/16

TIME SAMPLED: 05:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	0.004	mg/l	0.015	3/8/16
Copper, SM 3111B	0.102	mg/l	1.3	3/8/16
		***************************************		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

nelac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304059.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: ANNA IACONO, 42 FERNCLIFF RD., JERSEY CITY, NJ 07305

DATE SAMPLED: 3/4/16

TIME SAMPLED: 07:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	<0.001	mg/l	0.015	3/8/16
Copper, SM 3111B	<0.050	mg/l	1.3	3/8/16

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Haney Dein 294080



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

**REPORT OF** 

**ANALYSIS** 

nelac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360304060.0

CLIENT # JER17 DATE SUBMITTED: 3/4/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: PHILIP A. FUSCIELLO, 160 BRUNSWICK ST., JERSEY CITY, NJ

07305

DATE SAMPLED: 3/3/16

TIME SAMPLED: 08:20

RESULT	UNITS	MCL	DATE ANALYZED
0.002	mg/l	0.015	3/8/16
0.117	mg/l	1.3	3/8/16
	-		
	0.002	0.002 mg/l	0.002 mg/l 0.015

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307019.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC37-MUA

DATE SAMPLED: 3/7/16

TIME SAMPLED: 09:22

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
THM - Drinking Water, EPA 524.2			80	3/9/16
Chloroform	16.6	ug/l		
Bromodichloromethane	8.2	ug/l		
Dibromochloromethane	2.2	ug/l		
Bromoform	<0.5	ug/l		
			_	

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307020.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC37-MUA

DATE SAMPLED: 3/7/16

TIME SAMPLED: 09:22

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochioroacetic acid		ug/l		
Dichloroacetic acid		ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		
	<del></del>			

<= less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307021.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC27

DATE SAMPLED: 3/7/16

TIME SAMPLED: 09:47

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
THM - Drinking Water, EPA 524.2			80	3/9/16
Chloroform	15.3	ug/l		
Bromodichloromethane	7.1	ug/l		
Dibromochloromethane	2.0	ug/l		
Bromoform	<0.5	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307022.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > **Jersey City**

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC27

DATE SAMPLED: 3/7/16

TIME SAMPLED: 09:47

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ual		
		ug/l		
Dichloroacetic acid		ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		
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< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

Mathew Klein, M.S., Founder (1916-1996)
Harvey Klein, M.S., Laboratory Director

REPORT OF
ANALYSIS

TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC33

DATE SAMPLED: 3/7/16

TIME SAMPLED: 10:17

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
THM - Drinking Water, EPA 524.2			80	3/10/16
Chloroform	14.5	ug/l		
Bromodichloromethane	7.2	ug/l		
Dibromochloromethane	2.1	ug/l		
Bromoform	<0.5	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Have Dein

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966

email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307023.0

CLIENT # JER17

DATE SUBMITTED: 3/7/16



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307024.0

DATE SUBMITTED: 3/7/16

CLIENT # JER17

REPORT OF **ANALYSIS** 

TO: Jersey City Municipal Utilites Authority

555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC33

DATE SAMPLED: 3/7/16

TIME SAMPLED: 10:17

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ug/l		
Dichloroacetic acid		ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetlc acid		ug/l		
		_		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

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Toli Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307025.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC39

DATE SAMPLED: 3/7/16

TIME SAMPLED: 10:45

RESULT	UNITS	MCL	DATE ANALYZED
		80	3/10/16
2.1			
<0.5	ug∕l		
	17.9 8.3 2.1 <0.5	8.3 ug/l 2.1 ug/l	17.9 ug/l 8.3 ug/l 2.1 ug/l

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

Toll Free 800-273-8901

Telephone 908-688-8900 Fax 908-688-8966

email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307026.0

CLIENT # JER17

DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

REPORT OF **ANALYSIS** 

TO: Jersey City Municipal Utilites Authority 555 Route 440

> NJ Jersey City

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC39

DATE SAMPLED: 3/7/16

TIME SAMPLED: 10:45

07304

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ug/l		
Dichloroacetic acid		ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		
				<u> </u>

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307027.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC38

DATE SAMPLED: 3/7/16

TIME SAMPLED: 11:15

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
THM - Drinking Water, EPA 524.2			80	3/9/16
Chloroform	19.6	ug/l		
Bromodichloromethane	8.6	ug/l		
Dibromochloromethane	2.3	ug/l		
Bromoform	<0.5	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

REPORT OF ANALYSIS

TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC38

DATE SAMPLED: 3/7/16

TIME SAMPLED: 11:15

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ug/l		
Dichloroacetic acid		ug/l		
Trichioroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ugЛ		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966

email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307028.0

CLIENT # JER17

DATE SUBMITTED: 3/7/16

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

REPORT # 360307029.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC23

DATE SAMPLED: 3/7/16

TIME SAMPLED: 11:55

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZEI
THM - Drinking Water, EPA 524.2			80	3/10/16
Chloroform	16.1	ug/l		
Bromodichloromethane	8.0	ug/i		
Dibromochloromethane	1.9	ug/l		
Bromoform	<0.5	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307030.0

CLIENT # JER17

DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC23

DATE SAMPLED: 3/7/16

TIME SAMPLED: 11:55

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ug/l		
Dichloroacetic acld	<del>                                     </del>	ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toil Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307031.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC18

DATE SAMPLED: 3/7/16

TIME SAMPLED: 12:25

		80	3/10/16
20.1	ug/l		
9.1	ug/l		
2.4	ug/l		
<0.5	ug/l		
	2.4	2.4 ug/l	2.4 ug/l

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360307032.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC18

DATE SAMPLED: 3/7/16

TIME SAMPLED: 12:25

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	All cancelled			
Monochloroacetic acid		ug/l		
Dichloroacetic acid	Ī	ug/l		
Trichloroacetic acid		ug/i		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Hang Klein



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

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Internet: www.gslabs.com REPORT # 360307033.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

REPORT OF ANALYSIS

TO: Jersey City Municipal Utilites Authority

555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC6

DATE SAMPLED: 3/7/16

TIME SAMPLED: 12:56

RESULT	UNITS	MCL	DATE ANALYZED
		80	3/10/16
<0.5	ug/l		
	16.8 7.8 2.1 <0.5	16.8 ug/l 7.8 ug/l 2.1 ug/l	16.8 ug/l 7.8 ug/l 2.1 ug/l

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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REPORT OF

**ANALYSIS** 



Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com

REPORT # 360307034.0

CLIENT # JER17 DATE SUBMITTED: 3/7/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

**Jersey City** 

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: JC6

DATE SAMPLED: 3/7/16

TIME SAMPLED: 12:56

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2	Ali cancelled			
Na sablassas Varid		ug/l		
Monochloroacetic acid				
Dichloroacetic acid		ug/l		
Trichloroacetic acid		ug/l		
Monobromoacetic acid		ug/l		
Dibromoacetic acid		ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205 nelac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360311018.0

CLIENT # JER17
DATE SUBMITTED: 3/11/16

REPORT OF ANALYSIS

TO: Jersey City Municipal Utilites Authority

555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: KITCHEN - VERN YENOR, 61 SUMMIT AVE., JERSEY CITY

DATE SAMPLED: 3/8/16

TIME SAMPLED: 07:05

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	0.002	mg/l	0.015	3/14/16
Copper, EPA 200.8	0.084	mg/l	1.3	3/14/16

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316018.0

DATE SUBMITTED: 3/16/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: MEN'S RESTROOM SINK - MUA BUILDING, 555 RT. 440, JC37

DATE SAMPLED: 3/16/16

TIME SAMPLED: 09:26

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	18.7	ug/l		
Trichloroacetic acid	14.3	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

REPORT OF **ANALYSIS** 

TO: Jersey City Municipal Utilites Authority

555 Route 440

07304

ATT: Rajiv Prakash

Jersey City

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: KITCHEN SINK - FIRE DEPT., 255 KEARNY AVE., JC27

DATE SAMPLED: 3/16/16

TIME SAMPLED: 09:58

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2		***************************************	60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	15.7	ug/l		
Trichloroacetic acid	12.4	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966

email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316019.0

CLIENT # JER17

DATE SUBMITTED: 3/16/16



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

nelac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316020.0

CLIENT # JER17 DATE SUBMITTED: 3/16/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: KITCHEN SINK - FIRE DEPT., 488 OCEAN AVE., JC33

DATE SAMPLED: 3/16/16

TIME SAMPLED: 10:16

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZE
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTE
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	14.9	ug/l		
Trichloroacetic acid	13.9	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		

<= less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205 \*neac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316021.0

CLIENT # JER17 DATE SUBMITTED: 3/16/16

REPORT OF ANALYSIS

TO: Jersey City Municipal Utilites Authority

555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: KITCHEN SINK - PORT LIBERTIE MANAGEMENT, JC39

DATE SAMPLED: 3/16/16

TIME SAMPLED: 10:31

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	16.5	ug/l		
Trichloroacetic acid	15.1	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

Hang Klein



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316022.0

CLIENT # JER17

DATE SUBMITTED: 3/16/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: HAND SINK - JERSEY CITY MEDICAL CENTER, 355 GRAND ST.,

DATE SAMPLED: 3/16/16

TIME SAMPLED: 11:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	14.9	ug/l		
Trichloroacetic acid	12.9	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		
		Market Market		
	-			

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316023.0

DATE SUBMITTED: 3/16/16

CLIENT # JER17

**ANALYSIS** 

TO: Jersey City Municipal Utilites Authority

555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

Harvey Klein, M.S., Laboratory Director

Jersey City

07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: RESTROOM SINK - FIRE DEPT., 355 NEWARK AVE., JC18

DATE SAMPLED: 3/16/16

TIME SAMPLED: 11:13

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	19.3	ug/l		
Trichloroacetic acid	15.3	ug/l		
Monobromoacetic acid	<1.0	nð\J		
Dibromoacetic acid	<1.0	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360316024.0

DATE SUBMITTED: 3/16/16

CLIENT # JER17

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority

555 Route 440

Jersey City

07304 NJ

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: MEN'S RESTROOM SINK - FIRE DEPT., 595 PALISADES AVE.,

DATE SAMPLED: 3/16/16

TIME SAMPLED: 11:44

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/l		3/21/16
Dichloroacetic acid	14.9	ug/l		
Trichloroacetic acid	13.4	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		
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< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing 410 Hillside Avenue Hillside, New Jersey 07205

REPORT OF **ANALYSIS** 

Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com Internet: www.gslabs.com REPORT # 360316025.0

Toll Free 800-273-8901

CLIENT # JER17 DATE SUBMITTED: 3/16/16

Harvey Klein, M.S., Laboratory Director

TO: Jersey City Municipal Utilites Authority 555 Route 440

Mathew Klein, M.S., Founder (1916-1996)

**Jersey City** 

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: DRINKING WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: KITCHEN SINK - STADIUM PIZZA, 38 KELLOGE ST., JC38

DATE SAMPLED: 3/16/16

TIME SAMPLED: 12:10

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Haloacetic Acids, EPA 552.2			60	3/23/16
				DATE EXTRACTED
Monochloroacetic acid	<2.0	ug/i		3/21/16
Dichloroacetic acid	16.3	ug/l		
Trichioroacetic acid	14.8	ug/l		
Monobromoacetic acid	<1.0	ug/l		
Dibromoacetic acid	<1.0	ug/l		

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.



Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

nelac

Toll Free 800-273-8901 Telephone 908-688-8900 Fax 908-688-8966 email: info@gslabs.com

Internet: www.gslabs.com REPORT # 360318076.0

CLIENT # JER17 DATE SUBMITTED: 3/18/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID:

SAMPLE LOCATION: BATHROOM SINK, 63 TUERS AVE.

DATE SAMPLED: 3/17/16

TIME SAMPLED: 11:00

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	<0.001	mg/l	0.015	3/22/16
Copper, EPA 200.7	0.093	mg/l	1.3	3/28/16
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< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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Bacteriological and Chemical Testing
410 Hillside Avenue
Hillside, New Jersey 07205

REPORT OF

**ANALYSIS** 

nelac

Toll Free 800-273-8901
Telephone 908-688-8900
Fax 908-688-8966
email: info@gslabs.com
Internet: www.gslabs.com

REPORT # 360318077.0

CLIENT # JER17 DATE SUBMITTED: 3/18/16

Mathew Klein, M.S., Founder (1916-1996) Harvey Klein, M.S., Laboratory Director

> TO: Jersey City Municipal Utilites Authority 555 Route 440

> > Jersey City

NJ 07304

ATT: Rajiv Prakash

SAMPLE TYPE: WATER, GRAB SAMPLE

SAMPLE ID: ROCKELLE GRENEE

SAMPLE LOCATION: 88 LAIDLAW AVE., JERSEY CITY, NJ 07306

DATE SAMPLED: 3/15/16

TIME SAMPLED: 18:30

ANALYSIS	RESULT	UNITS	MCL	DATE ANALYZED
Lead, EPA 200.9	<0.001	mg/l	0.015	3/22/16
Copper, EPA 200.7	0.118	mg/l	1.3	3/28/16
			-	

< = less than, not detected.

MCL = Maximum Contaminant Level allowed by State and Federal regulations.

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